SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Mixture identification:

Trade name: White PU Matt topcoat

Trade code: **TA63G20C01**

UFI: S4H1-T0PX-Q00R-TGKJ

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use: Surface coating

Uses advised against: N.A.

1.3. Details of the supplier of the safety data sheet

Company: Sirca S.p.A.

Viale Roma, 85

35010 Sandono di Massanzago (PD) - ITALY

Tel. +39 0499322311

Email: safety@sirca.it

1.4. Emergency telephone number

National Poisons Information Service - Medical Toxicology Unit - London - Tel. 0171/6359191

Scottish Poisons Information Bureau - The Royal Infirmary - Edinburgh - Tel. 01/315362298

Welsh National Poisons Unit - Ward West 5 - Llandough Hospital Penarth - Cardiff - Tel. 012/22709901

Poisons Information Centre - Royal Victoria Hospital - Belfast - Tel. 012/32240503

Poisons Information centre - Beaumont Hospital - Dublin - Tel. 0103531/8379964

CAV Policlinico "Umberto I". Roma V.le del Policlinico, 155 161 Telefono 06-49978000

Osp. Niguarda Ca' Granda. Milano Piazza Ospedale Maggiore,3 20162 Telefono 02-66101029

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) n. 1272/2008 (CLP)

Flam. Liq. 2	Highly flammable liquid and vapour.
Skin Irrit. 2	Causes skin irritation.
Eye Irrit. 2	Causes serious eye irritation.
Skin Sens. 1A	May cause an allergic skin reaction.
STOT RE 2	May cause damage to organs through prolonged or repeated exposure.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Regulation (EC) No 1272/2008 (CLP):

Pictograms and Signal Words

Danger

Hazard statements

H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.

H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H373	May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/…
P370+P378	In case of fire: Use CO2, Foam, Chemical powders For extinction.
P403+P235	Store in a well-ventilated place. Keep cool.

Contains

xylene [isomer mixture]

maleic anhydride

Fatty acids, C14-18 and C16-18-unsatd., maleated — May produce an allergic reaction.

Special provisions according to Annex XVII of REACH and subsequent amendments:

None.

2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration >= 0.1%.

Other Hazards: No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Mixture identification: White PU Matt topcoat

Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Numb.	Classification	Registration Number
12.5-20 %	xylene [isomer mixture]	CAS:1330-20-7 EC:215-535-7 Index:601-022-00-9	Flam. Liq. 3, H226; Asp. Tox. 1, H304; Eye Irrit. 2, H319; STOT SE 3, H335; STOT RE 2, H373; Skin Irrit. 2, H315; Acute Tox. 4, H312; Acute Tox. 4, H332	01-2119488216-32-xxxx
5-7 %	butanone	CAS:78-93-3 EC:201-159-0 Index:606-002-00-3	Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	01-2119457290-43-xxxx
3-5 %	ethyl acetate	CAS:141-78-6 EC:205-500-4 Index:607-022-00-5	Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	01-2119475103-46-xxxx
3-5 %	n-butyl acetate	CAS:123-86-4 EC:204-658-1 Index:607-025-00-1	Flam. Liq. 3, H226; STOT SE 3, H336, EUH066	01-2119485493-29-xxxx
2.5-3 %	ethylbenzene	CAS:100-41-4 EC:202-849-4 Index:601-023-00-4	Flam. Liq. 2, H225; Acute Tox. 4, H332; Asp. Tox. 1, H304; STOT RE 2, H373	01-2119489370-35-xxx
2.5-3 %	sec-butyl acetate	CAS:110-19-0 EC:203-745-1 Index:607-026-00-7	Flam. Liq. 2, H225; STOT SE 3, H336, EUH066	01-2119488971-22-xxxx
1-2 %	propan-2-ol	CAS:67-63-0 EC:200-661-7 Index:603-177-00-0	Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	01-2119457558-25-xxxx

1-2 %	2-methoxy-1-methylethyl acetate	CAS:108-65-6 EC:203-603-9 Index:607-195-00-7	Flam. Liq. 3, H226	01-2119475791-29-xxxx
0.5-1 %	4-methylpentan-2-one; isobutyl methyl ketone	CAS:108-10-1 EC:203-550-1 Index:606-004-00-4	Flam. Liq. 2, H225; Carc. 2, H351; Acute Tox. 4, H332; STOT SE 3, H336; Eye Irrit. 2, H319	01-2119473980-30-xxxx
0.1-0.2 %	Hexanoic acid, 2-ethyl-, zincsalt, basic	CAS:85203-81-2 EC:286-272-3	Eye Irrit. 2, H319, H361d; Repr. 2, H412; Aquatic Chronic 3, H412	01-2119979093-30-xxxx
0.1-0.2 %	Fatty acids, C14-18 and C16-18-unsatd., maleated	CAS:85711-46-2 EC:288-306-2	Skin Irrit. 2, H315; Skin Sens. 1, H317	01-2119976378-19-xxxx
< 0.0015%	maleic anhydride	CAS:108-31-6 EC:203-571-6 Index:607-096-00-9	Acute Tox. 4, H302 Eye Dam. 1, H318 STOT RE 1, H372 Skin Corr. 1B, H314 Skin Sens. 1A, H317 Resp. Sens. 1, H334 Specific Concentration Limits: C ≥ 0,001%: Skin Sens. 1A H317	01-2119472428-31-xxxx

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

Remove contaminated clothing immediatley and dispose off safely.

In case of eyes contact:

Do not use eyewash or ointment of any kind (before obtaining an examination or advice from an eye specialist).

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an opthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Do not induce vomiting, get medical attention showing the SDS and label hazardous.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.Consult a doctor.

4.2. Most important symptoms and effects, both acute and delayed

Eye damages

Skin Irritation

Contact a poisons centre

4.3. Indication of any immediate medical attention and special treatment needed

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

In case of fire: Use CO_2, Foam, Chemical powders For extinction.

Extinguishing media which must not be used for safety reasons:

None in particular.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

Cool the containers exposed to the fire with water.

5.3. Advice for firefighters

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non emergency personnel:

Wear personal protection equipment.

Remove all sources of ignition.
Collect the spilled product with no-sparking tools.
Remove persons to safety.
See protective measures under point 7 and 8.
For emergency responders:
Wear personal protection equipment.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.
Retain contaminated washing water and dispose it.
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.
Suitable material for taking up: absorbing material, organic, sand

6.3. Methods and material for containment and cleaning up

Suitable material for taking up: absorbing material, organic, sand
Eliminate all unguarded flames and possible sources of ignition. Do not smoke.
Collect spilled material with non-sparking equipment.
Wash with plenty of water.

6.4. Reference to other sections

See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Keep away from flame and sparks. Avoid accumulating electrostatic charge.
Place recipients on the ground whilst decanting, and wear anti-static clothing and shoes.
Avoid contact with skin and eyes, inhaltion of vapours and mists.
Don't use empty container before they have been cleaned.
Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.
Contamined clothing should be changed before entering eating areas.
Do not eat or drink while working.
Do not smoke while working.
See also section 8 for recommended protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

Always keep in a well ventilated place.
Store at below 30 °C. Keep away from unguarded flame and heat sources. Avoid direct exposure to sunlight.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Cool and adequately ventilated.

7.3. Specific end use(s)

No further recommendations. Refer to point 1.2

Recommendation(s)

None in particular

Industrial sector specific solutions:

None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Community Occupational Exposure Limits (OEL)

	OEL Type	Long Term mg/m3	Long Term ppm	Short Term mg/m3	Short Term ppm	Notes
xylene [isomer mixture] CAS: 1330-20-7	ACGIH	50	100	100	150	A4, BEI - URT and eye irr, CNS impair
butanone CAS: 78-93-3	ACGIH	300	200	600	300	
ethyl acetate CAS: 141-78-6	EU	734,000	200	1468,000	400,000	
ethylbenzene CAS: 100-41-4	ACGIH	100,000	20,000	150,000		A3, BEI - URT irr, kidney dam (nephropathy), cochlear impair
	EU					Skin
2-methoxy-1-methylethyl acetate	EU	275	50	550	100	Skin

CAS: 108-65-6					
4-methylpentan-2-one; isobutyl methyl ketone CAS: 108-10-1	EU	83	20	208	50
	ACGIH		20		75

Predicted No Effect Concentration (PNEC) values

	PNEC Limit	Exposure Route	Exposure Frequency	Remark
xylene [isomer mixture] CAS: 1330-20-7	0,327 mg/l	Fresh Water		
	0,327 mg/l	Fresh Water		
	0,327 mg/l	occasional emission		
	6,58 mg/l	Microorganisms in sewage treatments		
	2,31 mg/kg	Soil (agricultural)		dry
	12,46 mg/kg	Marine water sediments		dry
	12,46 mg/kg	Freshwater sediments		dry
butanone CAS: 78-93-3	55,8 mg/l	Marine water		
	55,8 mg/l	Fresh Water		
	55,8 mg/l	occasional emission		
	709 mg/l	STP		
	284,7 mg/kg dwt	Freshwater sediments		
	284,7 mg/kg dwt	Marine water sediments		
	22,5 mg/kg	Soil (agricultural)		
	1000 mg/kg	orally (secondary poisoning)		
ethyl acetate CAS: 141-78-6	0,26 mg/l	Fresh Water		
	0,026 mg/l	Marine water		
	1,25 mg/kg	Freshwater sediments		
	0,125 mg/kg	Marine water sediments		
	0,24 mg/kg	Soil (agricultural)		
	200 mg/kg	orally (secondary poisoning)		
	650 mg/l	STP		
n-butyl acetate CAS: 123-86-4	0,18 mg/l	Fresh Water		
	0,018 mg/l	Marine water		
	0,981 mg/kg	Freshwater sediments		
	0,098 mg/kg	Marine water sediments		
	0,09 mg/kg	Soil (agricultural)		
	35,6 mg/l	STP		
ethylbenzene CAS: 100-41-4	0,1 mg/l	Fresh Water		
	0,01 mg/l	Marine water		
	13,7 mg/l	Freshwater sediments		
	13,7 mg/l	Marine water sediments		
	0,1 mg/l	occasional emission		
sec-butyl acetate CAS: 110-19-0	0,17 mg/l	Fresh Water		
	0,017 mg/l	Marine water		
	0,877 mg/kg	Freshwater sediments		
	0,088 mg/kg	Marine water sediments		
	0,076 mg/kg	Soil (agricultural)		
propan-2-ol	140,9 mg/l	Fresh Water		

CAS: 67-63-0			
	140,9 mg/l	Marine water	
	140,9 mg/l	occasional emission	
	552 mg/kg	Freshwater sediments	
	552 mg/kg	Marine water sediments	
	28 mg/kg	Soil (agricultural)	
	2251 mg/l	STP	
2-methoxy-1-methylethyl acetate CAS: 108-65-6	0,635 mg/l	Fresh Water	
	0,064 mg/l	Marine water	
	0,329 mg/kg	Marine water sediments	dry
	3,29 mg/kg	Freshwater sediments	dry
	0,29 mg/kg	Soil (agricultural)	dry
	100 mg/l	STP	
4-methylpentan-2-one; isobutyl methyl ketone CAS: 108-10-1	0,6 mg/l	Fresh Water	
	0,06 mg/l	Marine water	
	8,27 mg/kg	Freshwater sediments	
	0,83 mg/kg	Marine water sediments	
	1,3 mg/kg	Soil (agricultural)	
maleic anhydride CAS: 108-31-6	0,043 mg/l	Fresh Water	
	0,004 mg/l	Marine water	
	0,334 mg/kg	Freshwater sediments	
	0,033 mg/kg	Marine water sediments	
	0,042 mg/kg	Soil (agricultural)	
	0,428 mg/l	occasional emission	
	44,6 mg/l	STP	

Derived No Effect Level (DNEL) values

	Worker Industry	Worker Professional	Consumer	Exposure Route	Exposure Frequency	Remark
xylene [isomer mixture] CAS: 1330-20-7	180 mg/Kg-bw/day			Human Dermal	Long Term, systemic effects	
	77 mg/m3			Human Inhalation	Long Term, systemic effects	
			108 mg/Kg-bw/day	Human Dermal	Long Term, systemic effects	
			1872 mg/m3	Human Inhalation	Long Term, local effects	
			12,5 mg/Kg-bw/day	Human Oral	Long Term, systemic effects	
butanone CAS: 78-93-3	1161 mg/Kg-bw/day			Human Dermal	Long Term, systemic effects	
	600 mg/m3			Human Inhalation	Long Term, systemic effects	
			412 mg/Kg-bw/day	Human Dermal	Long Term, systemic effects	
			106 mg/m3	Human Inhalation	Long Term, systemic effects	
			31 mg/Kg-bw/day	Human Oral	Long Term, systemic effects	
ethyl acetate CAS: 141-78-6	1468 mg/m3		734 mg/m3	Human Inhalation	Short Term, systemic effects	
	1468 ppm			Human Inhalation	Short Term (acute)	
	63 mg/Kg-bw/day			Human Dermal	Long Term, systemic effects	

	734 mg/m3			Human Inhalation	Long Term, local effects
	734 mg/m3			Human Inhalation	Long Term, systemic effects
			4,5 mg/Kg-bw/day	Human Oral	Long Term, systemic effects
			734 mg/m3	Human Inhalation	Short Term (acute)
			734 mg/m3	Human Inhalation	Long Term, systemic effects
			37 mg/Kg-bw/day	Human Dermal	Long Term, local effects
			367 mg/m3	Human Inhalation	Short Term, local effects
			367 mg/m3	Human Inhalation	Long Term, systemic effects
n-butyl acetate CAS: 123-86-4		600 mg/m3		Human Inhalation	Short Term, local effects
		300 mg/m3		Human Inhalation	Long Term, local effects
		11 mg/kg		Human Dermal	Long Term, systemic effects
		11 mg/kg		Human Dermal	Short Term, systemic effects
			300 mg/kg	Human Inhalation	Short Term, local effects
			35,7 mg/m3	Human Inhalation	Long Term, local effects
			6 mg/kg	Human Dermal	Short Term, systemic effects
			2 mg/kg	Human Oral	Long Term, systemic effects
			2 mg/kg	Human Oral	Short Term, systemic effects
ethylbenzene CAS: 100-41-4	180 mg/kg/day			Human Dermal	Long Term, systemic effects
	293 mg/m3			Human Inhalation	Short Term, local effects
	77 mg/m3			Human Inhalation	Long Term, systemic effects
sec-butyl acetate CAS: 110-19-0	4,95 mg/Kg-bw/day		2,48 mg/Kg-bw/day	Human Dermal	Long Term, systemic effects
	243 mg/m3		60,3 mg/m3	Human Inhalation	Long Term, systemic effects
			2,48 mg/Kg-bw/day	Human Oral	Long Term, systemic effects
propan-2-ol CAS: 67-63-0	500 mg/m3			Human Inhalation	Long Term, systemic effects
	888 mg/kg/day			Human Dermal	Long Term, systemic effects
			89 mg/kg	Human Inhalation	Long Term, systemic effects
			319 mg/kg	Human Dermal	Long Term, systemic effects
			26 mg/kg/day	Human Oral	Long Term, systemic effects
2-methoxy-1-methylethyl acetate CAS: 108-65-6		153,5 mg/kg		Human Dermal	Long Term, systemic effects
		275 mg/m3		Human Inhalation	Long Term, systemic effects
			54,8 mg/kg/day	Human Dermal	Long Term, systemic effects
			33 mg/m3	Human Inhalation	Long Term, systemic effects
			1,67 mg/kg/day	Human Oral	Long Term, systemic effects
4-methylpentan-2-one; isobutyl methyl ketone CAS: 108-10-1	208 mg/m3			Human Inhalation	Short Term (acute)
	208 mg/m3			Human Inhalation	Short Term, local effects
	11,8 mg/kg			Human Dermal	Long Term (repeated)
	83 mg/m3			Human Inhalation	Long Term (repeated)
	83 mg/m3			Human Inhalation	Long Term, local effects
			155,2 mg/m3	Human Inhalation	Short Term (acute)
			155,2 mg/m3	Human Inhalation	Short Term, local effects
			4,2 mg/kg	Human Dermal	Long Term (repeated)
			14,7 mg/m3	Human Inhalation	Long Term (repeated)
			4,2 mg/kg	Human Oral	Long Term (repeated)

maleic anhydride CAS: 108-31-6	0,8 mg/m3	Human Inhalation	Short Term, local effects
	0,4 mg/m3	Human Inhalation	Long Term, local effects
	0,04 mg/cm2	Human Dermal	Short Term, local effects
	0,04 mg/cm2	Human Dermal	Long Term, local effects
	0,8 mg/m3	Human Inhalation	Short Term, systemic effects
	0,4 mg/m3	Human Inhalation	Long Term, systemic effects

8.2. Exposure controls

Eye protection:

Use eye protection devices. Example: closed safety visors, goggles with side protection. Do not wear contact lenses.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Due to the synergistic effect of the substances contained in the formulation it is not possible to identify a single material capable of resisting their combination. Multilayer protective gloves for mixtures of substances may be suitable. Always refer to the protection degree and permeation rate data provided by the glove manufacturer with regard to the substances listed in point 3 of this sheet.

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

Use adequate protective respiratory equipment, e.g. A2 or A2P2 or A2P3.

Thermal Hazards:

N.A.

Environmental exposure controls:

None known

Hygienic and Technical measures

N.A.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical State Liquid

Appearance and colour: Liquid white

Odour: characteristic

pH: Not Relevant

Kinematic viscosity: N.A.

Melting point / freezing point: > 1 °C / < 0 °C

Initial boiling point and boiling range: > 55 °C

Flash point: < 23°C

Upper/lower flammability or explosive limits: N.A.

Vapour density: N.A.

Vapour pressure: N.A.

Relative density: 1.30 kg/l

Solubility in water: N.A.

Solubility in oil: N.A.

Partition coefficient (n-octanol/water): N.A.

Auto-ignition temperature: 250 °C

Decomposition temperature: N.A.

Flammability: The product is classified Flam. Liq. 2 H225

Particle characteristics:

Particle size: N.A.

9.2. Other information

Viscosity: 160.00 s (" Din cup # 4)

No other relevant information

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability

Stable under normal conditions

10.3. Possibility of hazardous reactions

None.

10.4. Conditions to avoid

Avoid accumulating electrostatic charge.
Vapours can form explosive mixtures with air.

10.5. Incompatible materials

Avoid contact with combustible materials. The product could catch fire.

10.6. Hazardous decomposition products

None.
vapours potentially dangerous to health may be released.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicological Information of the Preparation

a) acute toxicity	Not classified
	Based on available data, the classification criteria are not met
b) skin corrosion/irritation	The product is classified: Skin Irrit. 2(H315)
c) serious eye damage/irritation	The product is classified: Eye Irrit. 2(H319)
d) respiratory or skin sensitisation	The product is classified: Skin Sens. 1A(H317)
e) germ cell mutagenicity	Not classified
	Based on available data, the classification criteria are not met
f) carcinogenicity	Not classified
	Based on available data, the classification criteria are not met
g) reproductive toxicity	Not classified
	Based on available data, the classification criteria are not met
h) STOT-single exposure	Not classified
	Based on available data, the classification criteria are not met
i) STOT-repeated exposure	The product is classified: STOT RE 2(H373)
j) aspiration hazard	Not classified
	Based on available data, the classification criteria are not met

Toxicological information on main components of the mixture:

xylene [isomer mixture]	a) acute toxicity	LD50 Inhalation Rat = 27 mg/l 4h	
		LD50 Oral Rat = 3523 mg/kg	
		LD50 Skin Rabbit = 12126 mg/kg	
butanone	a) acute toxicity	LD50 Oral Rat = 2737 mg/kg	
		LD50 Skin Rabbit = 6480 mg/kg	
		LC50 Inhalation Rat = 23,5 mg/l 8h	
	b) skin corrosion/irritation	Skin Corrosive Rabbit Negative	moderatamente irritante
ethyl acetate	a) acute toxicity	LD50 Skin Rabbit > 20000 mg/kg	
		LD50 Oral Rat = 5620 mg/kg	
		LC50 Inhalation Rat > 29,3 mg/l 4h	
		LD50 Oral Rabbit = 4934 mg/kg body weight	
	b) skin corrosion/irritation	Skin Irritant Skin Rabbit Negative	
	e) germ cell mutagenicity	Genotoxicity Negative	
	j) aspiration hazard	Respiratory Tract Corrosive Inhalation Positive	
n-butyl acetate	a) acute toxicity	LC50 Inhalation Rat > 21 mg/l 4h	
		LD50 Oral Rat = 10736 mg/kg	Method OECD linee guide 402
		LD50 Skin Rabbit > 14000 mg/kg	
ethylbenzene	a) acute toxicity	LD50 Oral Rat = 3500 mg/kg	
		LD50 Oral Rat = 4710 mg/kg body weight	
		LD50 Skin Rabbit = 15400 mg/kg	
		DZSR_004 Inhalation Rat = 4000 Ppm 4h	
	d) respiratory or skin	Skin Sensitization Skin Cavia porcellus Negative	

	sensitisation	
sec-butyl acetate	a) acute toxicity	LD50 Oral Rat 13413 mg/kg
		LD50 Skin Rabbit > 17400 mg/kg
		LC50 Inhalation Rat > 30 mg/l 6h
propan-2-ol	a) acute toxicity	LD50 Oral Rat = 5045 mg/kg
		LD50 Skin Rat = 12800 mg/kg
		LC50 Inhalation Rat = 72000 mg/m3 4h
2-methoxy-1-methylethyl acetate	a) acute toxicity	LD50 Oral Rat = 8532 mg/kg
		LC50 Skin Rat > 5000 mg/kg
		LC50 Inhalation Mist Rat > 23,8 mg/l 6h
	b) skin corrosion/irritation	Skin Irritant Skin Rabbit Negative
	c) serious eye damage/irritation	Eye Irritant Rabbit Negative
	d) respiratory or skin sensitisation	Skin Sensitization Skin Cavia porcellus Negative
4-methylpentan-2-one; isobutyl methyl ketone	a) acute toxicity	LC50 Inhalation Rat = 23,29 g/m3
		LD50 Oral Rat = 2080 mg/kg
		LC50 Inhalation Rat = 8,2 mg/l 4h
		LD50 Skin Rabbit = 2000 mg/kg
Fatty acids, C14-18 and C16-18-unsatd., maleated	a) acute toxicity	LD50 Oral Rat Female > 2000 mg/kg
	b) skin corrosion/irritation	Skin Irritant Yes
		Eye Irritant Rabbit No
	d) respiratory or skin sensitisation	Skin Sensitization Mouse Yes
maleic anhydride	a) acute toxicity	LD50 Oral Rat = 1090 mg/kg body weight
		LD50 Skin Rabbit = 2620 mg/kg body weight
		LD50 Inhalation Rat = 4,35 mg/l 1h

Endocrine disrupting properties:

No endocrine disruptor substances present in concentration >= 0.1%

11.2 Information on other hazards

Based on the properties of the epoxy contituent(s) and considering toxicological data on similar preparations, this preparetion may be a skin sensitiser and an irritant.

It contains low molecular epoxy constituents which are irritating to eyes, mucous me

SECTION 12: Ecological information

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

List of Eco-Toxicological properties of the product

Not classified for environmental hazards.

No data available for the product

List of Eco-Toxicological properties of the components

Component	Ident. Numb.	Ecotox Data

xylene [isomer mixture]	CAS: 1330-20-7 - EINECS: 215-535-7 - INDEX: 601-022-00-9	a) Aquatic acute toxicity : EC50 Daphnia = 1 mg/l 48
		a) Aquatic acute toxicity : LC50 Fish = 3,2 mg/l 96
		a) Aquatic acute toxicity : LC50 Algae = 2,6 mg/l 73
butanone	CAS: 78-93-3 - EINECS: 201-159-0 - INDEX: 606-002-00-3	a) Aquatic acute toxicity : LC50 Fish > 3220 mg/l 96
		a) Aquatic acute toxicity : EC50 Daphnia > 520 mg/l 48
ethyl acetate	CAS: 141-78-6 - EINECS: 205-500-4 - INDEX: 607-022-00-5	a) Aquatic acute toxicity : LC50 Fish = 454,7 mg/l 96
		a) Aquatic acute toxicity : EC50 Daphnia = 154 mg/l 48
		a) Aquatic acute toxicity : EC50 Algae = 3300 mg/l 48
		b) Aquatic chronic toxicity : NOEC Algae > 100 mg/l 72
n-butyl acetate	CAS: 123-86-4 - EINECS: 204-658-1 - INDEX: 607-025-00-1	a) Aquatic acute toxicity : LC50 Fish = 64 mg/l 48
		a) Aquatic acute toxicity : EC50 Daphnia = 73 mg/l 24
		a) Aquatic acute toxicity : EC50 Algae = 674 mg/l 72
ethylbenzene	CAS: 100-41-4 - EINECS: 202-849-4 - INDEX: 601-023-00-4	a) Aquatic acute toxicity : LC50 Fish = 42,3 mg/l 96
sec-butyl acetate	CAS: 110-19-0 - EINECS: 203-745-1 - INDEX: 607-026-00-7	a) Aquatic acute toxicity : LC50 Fish = 17 mg/l 96
		a) Aquatic acute toxicity : EC50 Daphnia = 25 mg/l 48
		a) Aquatic acute toxicity : LC50 Algae = 370 mg/l 72
		b) Aquatic chronic toxicity : NOEC Daphnia = 23 mg/l 504
		c) Bacteria toxicity : EC50 Active mud = 1886 mg/l 6
propan-2-ol	CAS: 67-63-0 - EINECS: 200-661-7 - INDEX: 603-177-00-0	a) Aquatic acute toxicity : LC50 Fish = 9640 mg/l 96
		a) Aquatic acute toxicity : LC50 Daphnia > 1000 mg/l 24
		e) Plant toxicity : NOEC Algae = 1800 mg/l 168 - ,,Prova statica,inibizione della crescita
		c) Bacteria toxicity : EC50 Active mud > 1000 mg/l
		b) Aquatic chronic toxicity : NOEC Daphnia = 30 mg/l 504 - Prova semistatica
2-methoxy-1-methylethyl acetate	CAS: 108-65-6 - EINECS: 203-603-9 - INDEX: 607-195-00-7	a) Aquatic acute toxicity : LC50 Fish > 100 ml/l 96 - Method OECD linee guide 203
		a) Aquatic acute toxicity : EC50 Daphnia > 500 mg/l 48 - ,,Method Direttiva 67/548CEE allegato V,C.2
		a) Aquatic acute toxicity : ErC50 Algae > 1000 mg/l 72 - Method OECD TG 209
4-methylpentan-2-one; isobutyl methyl ketone	CAS: 108-10-1 - EINECS: 203-550-1 - INDEX: 606-004-00-4	a) Aquatic acute toxicity : LC50 Fish > 100 mg/l 96
		a) Aquatic acute toxicity : EC50 Daphnia > 100 mg/l 48
		a) Aquatic acute toxicity : EC50 Algae > 100 mg/l

Fatty acids, C14-18 and C16-18-unsatd., maleated	CAS: 85711-46-2 - EINECS: 288-306-2	a) Aquatic acute toxicity :	LC50 Fish > 150 mg/l 48
		a) Aquatic acute toxicity :	EC50 Daphnia > 100 mg/l 48
		a) Aquatic acute toxicity :	ErC50 Algae > 100 mg/l 72
		a) Aquatic acute toxicity :	EC50 Active mud > 1000 mg/l 3
maleic anhydride	CAS: 108-31-6 - EINECS: 203-571-6 - INDEX: 607-096-00-9	a) Aquatic acute toxicity :	LC50 Fish = 75 mg/l 96
		a) Aquatic acute toxicity :	LC0 Fish = 115 mg/l 48
		a) Aquatic acute toxicity :	EC50 Algae = 29 mg/l 72
		a) Aquatic acute toxicity :	EC50 Daphnia = 84 mg/l 24
		a) Aquatic acute toxicity :	EC50 Daphnia 42,8 mg/l 48
		a) Aquatic acute toxicity :	EC0 Eisenia foetica 44,6 mg/l 17

No endocrine disruptor substances present in concentration >= 0.1%

12.2. Persistence and degradability

None known

N.A.

12.3. Bioaccumulative potential

N.A.

12.4. Mobility in soil

N.A.

12.5. Results of PBT and vPvB assessment

No PBT, vPvB or endocrine disruptor substances present in concentration >= 0.1%.

12.6 Endocrine disrupting properties

12.6 Endocrine disrupting properties

12.7 Other adverse effects

N.A.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

SECTION 14: Transport information

14.1. UN number or ID number

1263

14.2. UN proper shipping name

ADR-Shipping Name: PAINT

IATA-Technical name: PAINT

IMDG-Technical name: PAINT

14.3. Transport hazard class(es)

ADR-Class: 3

IATA-Class: 3

IMDG-Class: 3

14.4. Packing group

ADR-Packing Group: II

IATA-Packing group: II

IMDG-Packing group: II

14.5. Environmental hazards

Toxic Ingredients Qty: 0.00

High Toxicity Ingredients Qty: 0.00

Marine pollutant: No

Environmental Pollutant: No

14.6. Special precautions for user

Road and Rail (ADR-RID) :

ADR exempt: No

ADR-Label: 3

ADR - Hazard identification number: 33

ADR-Special Provisions: 163 367 640C 650

ADR-Transport category (Tunnel restriction code): 2 (D/E)

Air (IATA) :

IATA-Passenger Aircraft: 353

IATA-Cargo Aircraft: 364

IATA-Label: 3

IATA-Subsidiary hazards: -

IATA-Erg: 3L

IATA-Special Provisioning: A3 A72 A192

Sea (IMDG) :

IMDG-Stowage Code: Category B

IMDG-Stowage Note: -

IMDG-Subsidiary hazards: -

IMDG-Special Provisioning: 163 367

IMDG-Page: N/A

IMDG-Label: N/A

IMDG-MFAG: N/A

14.7. Maritime transport in bulk according to IMO instruments

N.A.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 2000/39/EC (Occupational exposure limit values)

Regulation (EC) n. 1907/2006 (REACH)

Regulation (EC) n. 1272/2008 (CLP)

Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013

Regulation (EU) n. 286/2011 (ATP 2 CLP)

Regulation (EU) n. 618/2012 (ATP 3 CLP)

Regulation (EU) n. 487/2013 (ATP 4 CLP)

Regulation (EU) n. 944/2013 (ATP 5 CLP)

Regulation (EU) n. 605/2014 (ATP 6 CLP)

Regulation (EU) n. 2015/1221 (ATP 7 CLP)

Regulation (EU) n. 2016/918 (ATP 8 CLP)

Regulation (EU) n. 2016/1179 (ATP 9 CLP)

Regulation (EU) n. 2017/776 (ATP 10 CLP)

Regulation (EU) n. 2018/699 (ATP 11 CLP)

Regulation (EU) n. 2018/1480 (ATP 13 CLP)

Regulation (EU) n. 2019/521 (ATP 12 CLP)

Regulation (EU) n. 2020/217 (ATP 14 CLP)

Regulation (EU) n. 2020/1182 (ATP 15 CLP)

Regulation (EU) n. 2021/643 (ATP 16 CLP)

Regulation (EU) n. 2020/878

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product: 3, 40 3, 40

Restrictions related to the substances contained: 30, 70, 75 30, 70, 75

Provisions related to directive EU 2012/18 (Seveso III):

N.A.

Regulation (EU) No 649/2012 (PIC regulation)

No substances listed

German Water Hazard Class.

Class 3: extremely hazardous.

SVHC Substances:

No data available

Dir. 2010/75/EC (VOC directive) ; Dir. 2004/42/EC (VOC directive)

Total solid content: 59 - 62 %

Volatile Organic compounds - VOCs = 40 %

Volatile Organic compounds - VOCs = 516 g/L

Of which reactive monomers: 0 %

Total Volatile Organic Carbon (typical value): 30 %

Of which reactive monomers: 0 %

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

SECTION 16: Other information

Code	Description
EUH066	Repeated exposure may cause skin dryness or cracking.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.

Code	Hazard class and hazard category	Description
2.6/2	Flam. Liq. 2	Flammable liquid, Category 2
2.6/3	Flam. Liq. 3	Flammable liquid, Category 3
3.1/4/Dermal	Acute Tox. 4	Acute toxicity (dermal), Category 4
3.1/4/Inhal	Acute Tox. 4	Acute toxicity (inhalation), Category 4
3.10/1	Asp. Tox. 1	Aspiration hazard, Category 1
3.2/2	Skin Irrit. 2	Skin irritation, Category 2
3.3/2	Eye Irrit. 2	Eye irritation, Category 2
3.4.2/1	Skin Sens. 1	Skin Sensitisation, Category 1
3.4.2/1A	Skin Sens. 1A	Skin Sensitisation, Category 1A
3.6/2	Carc. 2	Carcinogenicity, Category 2
3.7/2	Repr. 2	Reproductive toxicity, Category 2
3.8/3	STOT SE 3	Specific target organ toxicity — single exposure, Category 3
3.9/2	STOT RE 2	Specific target organ toxicity — repeated exposure, Category 2
4.1/C3	Aquatic Chronic 3	Chronic (long term) aquatic hazard, category 3

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
2.6/2	On basis of test data
3.2/2	Calculation method
3.3/2	Calculation method
3.4.2/1A	Calculation method

3.9/2 Calculation method

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

Legend to abbreviations and acronyms used in the safety data sheet:

ACGIH: American Conference of Governmental Industrial Hygienists

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

AND: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ATE: Acute Toxicity Estimate

ATEmix: Acute toxicity Estimate (Mixtures)

BCF: Biological Concentration Factor

BEI: Biological Exposure Index

BOD: Biochemical Oxygen Demand

CAS: Chemical Abstracts Service (division of the American Chemical Society).

CAV: Poison Center

CE: European Community

CLP: Classification, Labeling, Packaging.

CMR: Carcinogenic, Mutagenic and Reprotoxic

COD: Chemical Oxygen Demand

COV: Volatile Organic Compound

CSA: Chemical Safety Assessment

CSR: Chemical Safety Report

DMEL: Derived Minimal Effect Level

DNEL: Derived No Effect Level.

DPD: Dangerous Preparations Directive

DSD: Dangerous Substances Directive

EC50: Half Maximal Effective Concentration

ECHA: European Chemicals Agency

EINECS: European Inventory of Existing Commercial Chemical Substances.

ES: Exposure Scenario

GefStoffVO: Ordinance on Hazardous Substances, Germany.

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

IC50: half maximal inhibitory concentration

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

IMDG: International Maritime Code for Dangerous Goods.

INCI: International Nomenclature of Cosmetic Ingredients.

IRCCS: Scientific Institute for Research, Hospitalization and Health Care

KAFH: KAFH

KSt: Explosion coefficient.

LC50: Lethal concentration, for 50 percent of test population.

LD50: Lethal dose, for 50 percent of test population.

LDLo: Leathal Dose Low

N.A.: Not Applicable

N/A: Not Applicable

N/D: Not defined/ Not available

NA: Not available

NIOSH: National Institute for Occupational Safety and Health

NOAEL: No Observed Adverse Effect Level

OSHA: Occupational Safety and Health Administration.

PBT: Persistent, Bioaccumulative and Toxic

PGK: Packaging Instruction

PNEC: Predicted No Effect Concentration.

PSG: Passengers

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

STEL: Short Term Exposure limit.

STOT: Specific Target Organ Toxicity.

TLV: Threshold Limiting Value.

TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).

vPvB: Very Persistent, Very Bioaccumulative.

WGK: German Water Hazard Class.

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Paragraphs modified from the previous revision:

- 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING
- 3. COMPOSITION/INFORMATION ON INGREDIENTS
- 16. OTHER INFORMATION

Fac-simile label

White PU Matt topcoat

Regulation (EC) No 1272/2008 (CLP):

Pictograms and Signal Words

Danger

Hazard statements

H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H373	May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/…
P370+P378	In case of fire: Use CO2, Foam, Chemical powders For extinction.
P403+P235	Store in a well-ventilated place. Keep cool.

Contains

xylene [isomer mixture]

maleic anhydride

Fatty acids, C14-18 and C16-18-unsatd., maleated — May produce an allergic reaction.

QUANTITY: **SUPPLIER:**